

Title (en)  
PORTABLE NEBULIZER DEVICE

Title (de)  
TRAGBARE ZERSTÄUBERVORRICHTUNG

Title (fr)  
DISPOSITIF NÉBULISEUR PORTABLE

Publication  
**EP 2822623 A4 20150429 (EN)**

Application  
**EP 13758189 A 20130222**

Priority  
• US 201213414439 A 20120307  
• US 2013027267 W 20130222

Abstract (en)  
[origin: WO2013133989A1] A nasal nebulizer with a main canister for receiving fluid and an insert with a fluid channel includes a contiguous pressurized air supply source. The fluid channel may be a tapered tube overlapping an air exit port in the canister. The fluid channel may also comprise a common bell housing surrounding the air exit port above a base of the insert, which rests within the canister. The insert may include an extension projecting out to the canister and a vertical groove may extend down the fluid channel to a hole in the extension, which upon use helps create a vacuum that pulls in deflected fluid. The main canister includes a convex top surface around the periphery of an opening for a reservoir that receives fluids. The top surface extends downwardly to a generally rectangular opening that connects to the pressurized air supply source.

IPC 8 full level  
**A61M 11/00** (2006.01)

CPC (source: EP US)  
**A61M 3/0233** (2013.01 - EP US); **A61M 3/0279** (2013.01 - EP); **A61M 11/001** (2014.02 - EP); **A61M 11/06** (2013.01 - EP);  
**A61M 15/08** (2013.01 - EP US); **A61M 3/0245** (2013.01 - EP US); **A61M 2205/75** (2013.01 - EP); **A61M 2205/8206** (2013.01 - EP);  
**A61M 2210/0618** (2013.01 - EP)

Citation (search report)  
• [XYI] US 4251033 A 19810217 - RICH MICHAEL, et al  
• [XI] US 2011040250 A1 20110217 - ABATE RICCARDO [IT], et al  
• [A] US 6701916 B2 20040309 - MEZZOLI GIORGIO [IT]  
• [Y] US 6619284 B2 20030916 - KONG GEOK WENG [HK]  
• [Y] US 2011137290 A1 20110609 - FLICKINGER WILLIAM J [US], et al  
• [Y] US 5906198 A 19990525 - FLICKINGER WILLIAM J [US]  
• [Y] US 6732731 B1 20040511 - TSENG DANIEL C M [TW]  
• [A] US 2564400 A 19510814 - HALL VICTOR C  
• [A] US 2011247610 A1 20111013 - NAKAMURA SHOICHI [JP]  
• [Y] DE 818247 C 19511022 - SHAW INSULATOR COMPANY  
• See references of WO 2013133989A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2013133989 A1 20130912**; CN 104159632 A 20141119; CN 104159632 B 20161109; EP 2822623 A1 20150114; EP 2822623 A4 20150429;  
EP 2822623 B1 20171101

DOCDB simple family (application)  
**US 2013027267 W 20130222**; CN 201380013248 A 20130222; EP 13758189 A 20130222